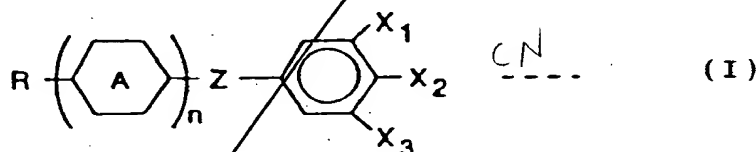


layer interposed therebetween, and an electrode structure for generating an electric field having a component predominantly in parallel with one of said pair of substrates, said electrode structure including a pixel electrode and a common electrode;

wherein a relationship between a distance l between said pixel electrode and said common electrode and a distance d between said pair of substrates is $l/d \geq 2.0$; and

7 wherein said liquid crystal composite material includes a liquid chemical compound represented by a general chemical formula (I)

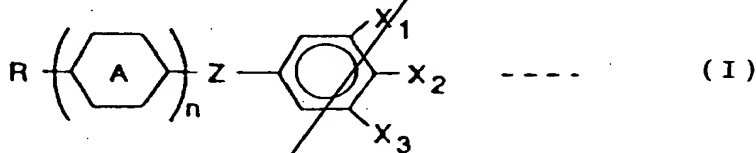


A₁ cont.
 wherein in the formula (I), X_1 , X_2 and X_3 are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three X_1 , X_2 and X_3 being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxy group having the carbon number 1 to 10 which can be substituted; Ring A is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and [2, 2, 2]-bicyclohexane ring, Z is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and n is 1 or 2.

Please rewrite claim 3 in independent form as follows:

SUB C2 3. (amended) A liquid crystal composite material [according to claim 1,] for use in a liquid crystal layer of a liquid crystal display device having a pair of substrates with the liquid crystal layer interposed therebetween, and an electrode structure for generating an electric field having a component predominantly in parallel with one of said pair of substrates;

wherein said liquid crystal composite material includes a liquid chemical compound represented by a general chemical formula (I)



$K_2/\Delta\epsilon < 9 \times 10^{-8} \text{ (dyn)}$

A2 wherein in the formula (I) X_1 , X_2 and X_3 are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three X_1 , X_2 and X_3 being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 which can be substituted; Ring A is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and [2, 2, 2]-bicyclohexane ring, Z is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and n is 1 or 2; and

A2
cont.

wherein a relation between an elasticity constant K_2 and a dielectric anisotropy $\Delta\epsilon$ of said liquid crystal composite material satisfies the relation $K_2/\Delta\epsilon < 9 \times 10^{-8}[\text{dyn}]$.

Please amend claim 4 as follows:

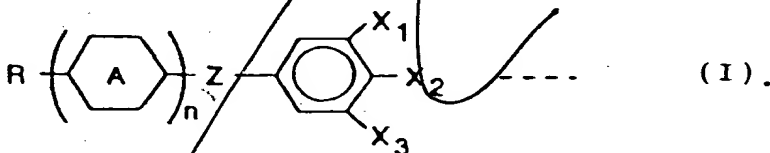
Claim 4, line 8, delete " Ωm " insert $--\Omega \cdot \text{cm}--$;

line 9, delete " Ωm " insert $--\Omega \cdot \text{cm}--$.

Please add the following new claims:

SUB 2

6. A liquid crystal composite material according to claim 4, wherein said liquid crystal composite material includes a liquid chemical compound represented by a general chemical formula (I)

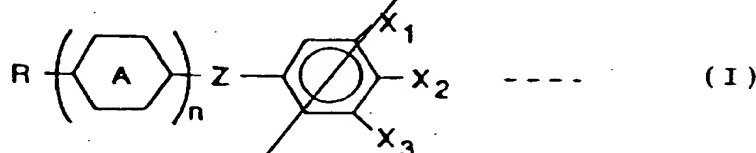


A3

7. A liquid crystal composite material according to claim 4, wherein said electrode structure of said liquid crystal display device includes a pixel electrode and a common electrode, and a relationship between a distance l between said pixel electrode and said common electrode and a distance d between said pair of substrates is $l/d \geq 2.0$.

SUB
C3 8. In a liquid crystal display device having a liquid crystal layer interposed between a pair of substrates, and an electrode structure for generating an electric field having a component predominantly in parallel with one of said pair of substrates provided on one of said pair of substrates;

wherein said liquid crystal composite material includes a liquid chemical compound represented by a general chemical formula (I)



(A3
cont. wherein in the formula (I), X₁, X₂ and X₃ are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three X₁, X₂ and X₃ being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 (which can be substituted; Ring A is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and [2, 2, 2]-bicyclohexane ring, Z is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and n is 1 or 2.

9. In a liquid crystal display device according to claim 8, wherein X₂ is a cyano group.

10. In a liquid crystal display device according to claim 8, wherein a relation between an elasticity constant K_2 and a dielectric anisotropy $\Delta\epsilon$ of said liquid crystal composite material satisfies the relation $K_2/\Delta\epsilon < 9 \times 10^{-8} [\text{dyn}]$.

11. In a liquid crystal display device according to claim 8, wherein said liquid crystal composite material has a resistivity which is no greater than $1 \times 10^{13} \Omega \cdot \text{cm}$ and not less than $1 \times 10^9 \Omega \cdot \text{cm}$.

12. In a liquid crystal display device having a liquid crystal layer interposed between a pair of substrates, and an electrode structure for generating an electric field having a component predominantly in parallel with one of said pair of substrates, said electrode structure being provided on one of said pair of substrates, said liquid crystal layer including a liquid crystal composite material having a resistivity which is no greater than $10^{13} \Omega \cdot \text{cm}$ and not less than $1 \times 10^9 \Omega \cdot \text{cm}$.

13. In a liquid crystal display device according to claim 12, wherein said liquid crystal composite material includes a liquid chemical compound represented by a general chemical formula (I)

